

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Soybean Research Foundation, Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'SFR 350'

In Testimony Whereof, I have hereunto set  
my hand and caused the seal of the Plant  
Variety Protection Office to be affixed  
at the City of Washington  
this 24th day of January in  
the year of our Lord one thousand nine  
hundred and seventy-four

Attest:

*J. R. Rollin*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*Earl L. Butz*  
Secretary of Agriculture

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION <b>SRF 350</b>		2. KIND NAME <b>Soybeans</b>		FOR OFFICIAL USE ONLY	
3. GENUS AND SPECIES NAME <b>Glycine max (L.) Merr.</b>		4. FAMILY NAME (Botanical) <b>Leguminosae</b>		PV NUMBER <b>7400004</b>	
5. DATE OF DETERMINATION <b>March, 1968</b>		FILING DATE <b>7-27-73</b>		TIME <b>3:00 P.M.</b>	
6. NAME OF APPLICANT(S) <b>Soybean Research Foundation, Inc.</b>		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) <b>P.O. Box #72 Mason City, Illinois 62664</b>		FEE RECEIVED <b>\$ 250.00</b>	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) <b>Corporation</b>		10. STATE OF INCORPORATION <b>Illinois</b>		BALANCE DUE \$ \$ \$	
11. DATE OF INCORPORATION <b>April 28, 1965</b>		8. TELEPHONE AREA CODE AND NUMBER <b>217 482-3219</b>			
12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:  <b>Arnold L. Matson Director of Soybean Breeding Soybean Research Foundation, Inc. Mason City, Illinois 62664</b>					

## 13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Botanical Description of the Variety
- ☒ 13C. Exhibit C, Objective Description of the Variety
- ☒ 13D. Exhibit D, Data Indicative of Novelty
- ☒ 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☒ YES ☐ NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☒ YES ☐ NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? ☒ FOUNDATION ☒ REGISTERED ☒ CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

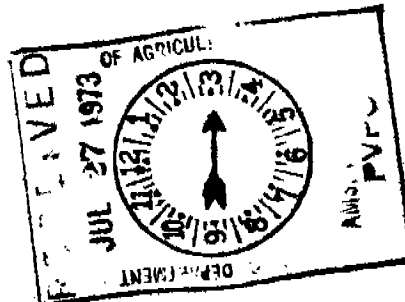
July 23 1973  
(DATE)

Arnold L. Matson  
(SIGNATURE OF APPLICANT)

\_\_\_\_\_  
(DATE)

\_\_\_\_\_  
(SIGNATURE OF APPLICANT)

## INSTRUCTIONS



GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

## ITEM

- 5 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

#7400004

Exhibit A - (Revised as per request - November 29, 1973)

"SRF 350" was developed by bulking seed from F4 plants originating from a single F3 plant from the cross Wayne3 x (Dormang x PI 181537). All plants bulked were quite uniform in phenotype. (Please note: Since the variety originates as a single plant selection in the F3 from a BC2 backcross, this is about the same as choosing a single plant selection in the F6 from a single cross.) SRF 350 appears to be uniform and stable.

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**Exhibit B -**

Seed of SRF 350 is spherical, seed coat shiny yellow, and the hilum color is black. The seeds are rather small, contain 3600 per lb. compared to 2500 for Wayne. The pod color is brown. The trifoliate leaves are lanceolate in shape, pubescence - tawny, and flowers are white. It is late Group III in maturity, ripening about midway between Wayne and Clark 63 - about the same as Williams. Growth habit is indeterminate. It branches well when planted in a thin stand. A high proportion of its pods bear 4 seeds, the percentage will vary with seeding rate, soil type, and season but in all cases it will be higher than Wayne grown under the same conditions. An occasional 5 seeded pod may be found in SRF 350.

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OBJECTIVE DESCRIPTION OF VARIETY  
BARLEY (*HORDEUM VULGARE*)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Adolph Coors Company

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

Golden, Colorado 80401

## FOR OFFICIAL USE ONLY

PVPO NUMBER

73004

VARIETY NAME OR TEMPORARY

DESIGNATION

Moravian III

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (i.e.  or ) when number is either 99 or less or 9 or less.

## 1. GROWTH HABIT:

 1 = SPRING 2 = FACULTATIVE WINTER 3 = WINTER  Early Growth: 1 = PROSTRATE 2 = SEMIPROSTRATE  
3 = ERECT

## 2. MATURITY (50% Flowering):

 1 = EARLY (California Mariout) 2 = MIDSEASON (Betzes) 3 = LATE (Frontier)

<input type="text" value="8"/> No. of days Earlier than .....	<input type="text" value="1"/>	}	1 = BETZES	2 = CALIFORNIA MARIOUT	3 = CONQUEST	4 = DICKSON
<input type="text"/> No. of days Later than .....	<input type="text"/>		5 = PIROLINE	6 = PRIMUS	7 = UNITAN	

## 3. PLANT HEIGHT (From soil level to top of head):

 1 = SEMIDWARF 2 = SHORT (California Mariout) 3 = MEDIUM TALL (Betzes) 4 = TALL (Conquest)

<input type="text" value="15"/> Cm. Shorter than .....	<input type="text" value="1"/>	}	1 = BETZES	2 = CALIFORNIA MARIOUT	3 = CONQUEST	4 = DICKSON
<input type="text"/> Cm. Taller than .....	<input type="text"/>		5 = PIROLINE	6 = PRIMUS	7 = UNITAN	

## 4. STEM:

 Exertion (Flag to spike at maturity): 1 = 0 - 3 cm. 2 = 3 - 10 cm.  Anthocyanin: 1 = ABSENT 2 = PRESENT  
3 = 10 - 15 cm. NO. OF NODES (Originating from node above ground)

<input type="text" value="1"/> Collar Shape:	1 = CLOSED 2 = V-SHAPED 3 = OPEN	<input type="text" value="2"/> Shape of Neck:	1 = STRAIGHT 2 = SNAKY
	4 = MODIFIED CLOSED OR OPEN		3 = OTHER (Specify)

## 5. LEAF:

<input type="text" value="2"/> Basal leaf sheath (seedling): 1 = GLABROUS 2 = PUBESCENT	<input type="text" value="2"/> Position of flag leaf (at boot stage):	1 = DROOPING
		2 = UPRIGHT

 Waxiness: 1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY  
3 = WAXY MM. WIDTH (First leaf below flag leaf) CM. LENGTH (First leaf below flag leaf) Anthocyanin in leaf sheath: 1 = ABSENT 2 = PRESENT

## 6. HEAD:

 Type: 1 = TWO-ROWED 2 = SIX-ROWED Density: 1 = LAX 2 = ERECT (Not dense)  
3 = ERECT (Dense) Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE  
4 = OTHER (Specify) Waxiness: 1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY  
3 = WAXY Lateral Kernels Overlap: 1 = NONE 2 = AT TIP  
3 = 1/4 - 1/2 OF HEAD Rachis (Hair on edge): 1 = LACKING 2 = FEW 3 = COVERED

## 7. GLUME:

 Length: 1 = 1/3 OF LEMMA 2 = 1/2 OF LEMMA  
3 = MORE THAN 1/2 OF LEMMA Hairs: 1 = NONE 2 = SHORT 3 = LONG Hair covering: 1 = NONE 2 = RESTRICTED TO MIDDLE 3 = CONFINED TO BAND 4 = COMPLETELY COVERED  
*GLUME WITH AWN IS AS LONG AS LEMMA* Awns: 1 = LESS THAN EQUAL TO LENGTH OF GLUMES 2 = EQUAL TO LENGTH OF GLUMES  
3 = MORE THAN EQUAL TO LENGTH OF GLUMES Awn Surface: 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH

## Exhibit D -

SRF 350 more closely resembles SRF 307B than any other previously released variety. However, it differs from SRF 307B in maturity, hilum color, and seed size. SRF 350 is about 4 days later than SRF 307B. It has a black hilum while SRF 307B has brown hilum and the seeds are considerably smaller than SRF 307B (3600 seeds per lb. compared to 2900 seeds per lb). It even more closely resembles SRF 425 which is a sister line to this variety and which is being released simultaneously with SRF 350. It differs from SRF 425 in maturity, height, and seed size. It is 6 days earlier, about 2 inches shorter, and has about 300 more seeds per lb.

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# 7400004

Exhibit E -

The Soybean Research Foundation is employer of the breeder, Dr. Arnold L. Matson, and is therefore the sole owner of the 'SRF 350' variety of soybean.

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## 22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	SRF 307B	Petiole angle	SRF 307B
Leaf shape	SRF 307B	Seed size	SRF 400
Leaf color	SRF 307B	Seed shape	SRF 307B
Leaf surface	SRF 307B	Seedling pigmentation	SRF 307B

## 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

VARIETY	NO. OF DAYS TO MATURITY	LODGING SCORE	PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
Submitted	131	2.5	48"	57mm	149mm	41.7	21.0%		
Name of similar variety									
Williams	131	2.5	48"	95mm	118mm				
SRF 307						43.4	21.2		

## INSTRUCTIONS

**GENERAL:** The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

**LEAF COLOR:** Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

**LEAF SIZE:** The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

**PLANT TYPE:** The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"